



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

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DATA MATRIX

Date July 7, 2021

EPA Reg No./File Symbol 92044-I

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Applicant's/Registrant's Name & Address CAC Chemical Americas, LLC
7 Castle View Court
Rye Brook, NY 10573

Product
CAC Asulam Technical

Ingredient: Asulam (CAS No. 3337-71-1; PC Code 106901)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
PRODUCT SPECIFIC DATA REQUIREMENTS					
830.1550	Product identity and composition	51040401	CAC Chemical Americas, LLC	OWN	
830.1600	Description of Materials Used to Produce the Product	51040401	CAC Chemical Americas, LLC	OWN	
830.1620	Description of the Production Process	51040401	CAC Chemical Americas, LLC	OWN	
830.1650	Description of the Formulation Process				Not Required ¹
830.1670	Discussion of Formation of Impurities	51040401	CAC Chemical Americas, LLC	OWN	
830.1700	Preliminary Analysis	50760502	CAC Chemical Americas, LLC	OWN	
830.1750	Certified Limits	51040401	CAC Chemical Americas, LLC	OWN	
830.1800	Enforcement Analytical Method	50760502	CAC Chemical Americas, LLC	OWN	
830.6302	Color	51040402	CAC Chemical Americas, LLC	OWN	
830.6303	Physical State	51040402	CAC Chemical Americas, LLC	OWN	
830.6304	Odor	51040402	CAC Chemical Americas, LLC	OWN	
830.6313	Stability to Normal and Elevated Temperatures, Metals and Metal Ions	51040406	CAC Chemical Americas, LLC	OWN	
830.6314	Oxidation/Reduction: Chemical Incompatibility	51040403	CAC Chemical Americas, LLC	OWN	
830.6315	Flammability	51040405	CAC Chemical Americas, LLC	OWN	Waiver ²
830.6316	Explosibility	51040405	CAC Chemical Americas, LLC	OWN	Waiver ³
830.6317	Storage Stability	51040404	CAC Chemical Americas, LLC	OWN	
830.6319	Miscibility	51040405	CAC Chemical Americas, LLC	OWN	Not Required ⁴
830.6320	Corrosion Characteristics	51040404	CAC Chemical Americas, LLC	OWN	
830.6321	Dielectric Breakdown Voltage				Not applicable
830.7000	pH	50760510	CAC Chemical Americas, LLC	OWN	

Signature

Name and Title

Ann M. Tillman | Senior Regulatory Consultant

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CAC Asulam Technical

Ingredient: Asulam (CAS No. 3337-71-1; PC Code 106901)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.7050	UV/Visible Absorption	50760506	CAC Chemical Americas, LLC	OWN	
830.7100	Viscosity	51040405	CAC Chemical Americas, LLC	OWN	Not required ⁵
830.7200	Melting Point/Melting Range	50760504	CAC Chemical Americas, LLC	OWN	
830.7220	Boiling Point/Boiling Range	51040405	CAC Chemical Americas, LLC	OWN	Not Required ⁶
830.7300	Density/Relative Density/Bulk Density	50760505	CAC Chemical Americas, LLC	OWN	
830.7370	Dissociation Constants in Water	51040405	CAC Chemical Americas, LLC	OWN/PL	
830.7520	Particle size, fiber length, and diameter distribution	51040405	CAC Chemical Americas, LLC	OWN	Waiver ⁷
830.7550	Partition Coefficient (n-octanol/water), Shake Flask Method	51040405	CAC Chemical Americas, LLC	OWN/PL	
830.7560	Partition Coefficient (n-octanol/water), Generator Method				See 830.7550
830.7570	Partition Coefficient (n-octanol/water), Estimation by Liquid Chromatography				See 830.7550
830.7840	Water Solubility: Column Elution Method, Shake Flask Method	51040405	CAC Chemical Americas, LLC	OWN/PL	
830.7860	Water Solubility: Generator Column Method				See 830.7840
830.7950	Vapor Pressure	51040405	CAC Chemical Americas, LLC	OWN/PL	
870.1100	Acute oral toxicity – rat	51601601	CAC Chemical Americas, LLC	OWN	
870.1200	Acute dermal toxicity – rat	51601602 51601601 51601605	CAC Chemical Americas, LLC CAC Chemical Americas, LLC CAC Chemical Americas, LLC	OWN OWN OWN	Waiver
870.1300	Acute inhalation toxicity – rat	51601603	CAC Chemical Americas, LLC	OWN	

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Ingredient: Asulam (CAS No. 3337-71-1; PC Code 106901)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.2400	Eye irritation	51601604	CAC Chemical Americas, LLC	OWN	
870.2500	Skin irritation	51601605	CAC Chemical Americas, LLC	OWN	
870.2600	Skin sensitization	51601606	CAC Chemical Americas, LLC	OWN	

GENERIC DATA REQUIREMENTS

850.2100	Acute Avian Oral Toxicity	00056417 49042501	UPL NA Inc.	OLD PAY	
850.2200	Acute Avian Dietary Toxicity	00056418 00056419		OLD OLD	
850.2400	Wild Mammal Toxicity				Not required / See 870 series
850.2300	Avian Reproductive Toxicity			GAP	
850.2500	Simulated or Actual Field Testing				Not required
850.1075	Freshwater Fish Toxicity	00098505 40872001		OLD OLD	
850.1010	Freshwater Invertebrate Toxicity	00098507 40977602		OLD OLD	
850.1025, 850.1035, 850.1045, 850.1055, 850.1075	Acute Toxicity Estuarine and Marine Organisms	00098508 00098509 41000701		OLD OLD OLD GAP	
850.1300	Aquatic Invertebrate Life Cycle (Freshwater)	49150201	UPL NA Inc.	PAY	

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Product
CAC Asulam Technical

Ingredient: Asulam (CAS No. 3337-71-1; PC Code 106901)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.1350	Aquatic Invertebrate Life Cycle (Saltwater)				Not required
850.1400	Fish Early Life Stage (Freshwater)	49176201	UPL NA Inc.	PAY	
850.1400	Fish Early Life Stage (Saltwater)				Not required
850.1500	Life Cycle Fish				Not required
850.1710, 850.1730, 850.1850	Aquatic Organisms Bioavailability, Biomagnification, Toxicity				Not required
850.1950	Simulated or Actual Field Testing for Aquatic Organisms				Not required
850.1735	Whole Sediment: Acute Freshwater Invertebrates				Not required
850.1740	Whole Sediment: Acute Marine Invertebrates				Not required
N/A	Whole Sediment: Chronic Invertebrates Freshwater and Marine				Not required
850.3020	Honey Bee Acute Contact Toxicity	00018842		OLD	
850.3030	Honeybee Toxicity of Residues on Foliage				Reserved
850.3040	Field Testing for Pollinators				Reserved
870.6100	Delayed Neurotoxicity (Acute) – Hen				Not required
870.6200	Acute Neurotoxicity – Rat				Waived
870.3100	90-Day Oral: Rodent	00098543		OLD	
870.3150	90-Day Oral: Non-Rodent	00098536 40977601		OLD OLD	

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Ingredient: Asulam (CAS No. 3337-71-1; PC Code 106901)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.3200	21/28-Day Dermal Toxicity	41076901 49655401 49837501	UPL NA, Inc. UPL NA, Inc.	OLD PAY PAY	
870.3250	90-Day Dermal Toxicity				Not required
870.3465	90-Day Inhalation Toxicity				Waived
870.6100	28-Day Delayed Neurotoxicity – Hen				Not required
870.6200	90-Day Neurotoxicity				Waived
870.4100	Chronic Oral Rodent	00098543		OLD	
870.4200	Carcinogenicity	00098543 42338201		OLD OLD	
870.3700	Reproduction / Developmental Toxicity Screening Test	00098538 00098539		OLD OLD	
870.3800	2-Generation Reproduction: Rat	00098540		OLD	
870.6300	Developmental Neurotoxicity Study				Not required
870.5100	Bacterial Reverse Mutation Test	40415302		OLD	
870.5300, 870.5375	In vitro Mammalian Cell Assay	40415301		OLD	
870.5385, 870.5395, 870.5450, 870.5550	In vivo Cytogenetics and Other Effects	00098542		OLD	
870.7485	Metabolism and Pharmacokinetics	41345601		OLD	
870.7200	Companion Animal Safety				Not required
870.7600	Dermal Penetration				Not required
870.7800	Immunotoxicity				Waived

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Ingredient: Asulam (CAS No. 3337-71-1; PC Code 106901)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
SS-Thyroid tox.	Comparative Thyroid Toxicity Study	49908101	UPL NA Inc.	PAY	
875.1100	Dermal Exposure – Outdoor		Agricultural Handler Exposure TF	PER	
875.1200	Dermal Exposure – Indoor				Not required
875.1300	Inhalation Exposure – Outdoor		Agricultural Handler Exposure TF	PER	
875.1400	Inhalation Exposure – Indoor				Not required
875.1500	Biological Monitoring		Agricultural Handler Exposure TF	PER	
875.1600	Data Reporting and Calculations		Agricultural Handler Exposure TF	PER	
875.1700	Product Use Information		Agricultural Handler Exposure TF	PER	
875.2100	Dislodgeable Foliar Residue and Turf Transferable Residues	45042201	Agricultural Reentry TF Outdoor Residential Exposure TF	OLD PER PER	
875.2200	Soil Residue Dissipation		Agricultural Reentry TF Outdoor Residential Exposure TF	PER PER	
875.2400	Dermal Exposure		Agricultural Reentry TF Outdoor Residential Exposure TF	PER PER	
875.2500	Inhalation Exposure		Agricultural Reentry TF Outdoor Residential Exposure TF	PER PER	
875.2600	Biological Monitoring		Agricultural Reentry TF Outdoor Residential Exposure TF	PER PER	

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Ingredient: Asulam (CAS No. 3337-71-1; PC Code 106901)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
875.2700	Product Use Information		Agricultural Reentry TF Outdoor Residential Exposure TF	PER PER	
875.2800	Descriptions of Human Activity		Agricultural Reentry TF Outdoor Residential Exposure TF	PER PER	
875.2900	Data Reporting and Calculations		Agricultural Reentry TF Outdoor Residential Exposure TF	PER PER	
875.3000	Nondietary Ingestion Exposure		Agricultural Reentry TF Outdoor Residential Exposure TF	PER PER	
201-1	Droplet Size Spectrum	42565901 42608401 42907401 43254001 43485601 43485602 43485603 43485604 43493801 43493802 43508001 43535801 43535802		OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD	
201-1 (cont.)	Droplet Size Spectrum (cont.)				

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Ingredient: Asulam (CAS No. 3337-71-1; PC Code 106901)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
201-1 (cont.)	Droplet Size Spectrum (cont.)	43657601		OLD	
		43657602		OLD	
		43665401		OLD	
		43665402		OLD	
		43757801		OLD	
		43757802		OLD	
		43766501		OLD	
		43766502		OLD	
		43766503		OLD	
		43766504		OLD	
		43781101		OLD	
		43803501		OLD	
		43832101		OLD	
		43832102		OLD	
		43845501		OLD	
		43845901		OLD	
		43925701		OLD	
		43953001		OLD	
		43953002		OLD	
		44010201		OLD	
		44070001		OLD	
		44100901		OLD	

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Ingredient: Asulam (CAS No. 3337-71-1; PC Code 106901)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
		44134101 44178701 44310401 44640801 44640901 44641001 44696901 44747401 44763001 44878601 44908901 45536001		OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD	
202-1	Droplet Size Spectrum				See 201-1
850.4100	Tier 1: Seedling Emergence	42613801 49219001	UPL NA Inc.	OLD PAY	
850.4150	Tier 1: Vegetative Vigor	42613801 49267001	UPL NA Inc.	OLD PAY	
850.4400, 850.4500	Tier 1: Aquatic Plant Growth	42560301 42560302 42611701 42631301		OLD OLD OLD OLD	

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Product
CAC Asulam Technical

Ingredient: Asulam (CAS No. 3337-71-1; PC Code 106901)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.4100	Tier 2: Seedling Emergence	42613801 49219001	UPL NA Inc.	OLD PAY	
850.4150	Tier 2: Vegetative Vigor	42613801 49267001	UPL NA Inc.	OLD PAY	
850.4400, 850.4500	Tier 2: Aquatic Plant Growth	42560301 42560302 42611701 42631301		OLD OLD OLD OLD	
850.4300	Terrestrial Field				Not required
850.4450	Aquatic Field				Not required
850.4025	Target Area Phytotoxicity				Not required
850.4550	Cyanobacteria Toxicity	42613802		OLD	
835.2120	Hydrolysis	40997901		OLD	
835.2240	Photodegradation in Water	41326001		OLD	
835.2410	Photodegradation in Soil	41326002		OLD	
835.2370	Photodegradation in Air				Not required
835.4100	Aerobic Soil Metabolism	41767801		OLD GAP	
835.4200	Anaerobic Soil Metabolism	41767802		OLD GAP	

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
835.4300	Aerobic Aquatic Metabolism	41767803		OLD GAP	
835.4400	Anaerobic Aquatic Metabolism	41767802		OLD GAP	
835.1230	Leaching / Adsorption / Desorption	40965001 41215101		OLD OLD	
835.1410	Volatility – Laboratory				Not required
835.8100	Volatility – Field				Not required
835.6100	Soil Field Dissipation Study			GAP	
835.6200	Aquatic Sediment Field Dissipation Study				Not required
835.6300	Forest Field Dissipation Study				Not required
835.6400	Combination and Tank Mixes				Not required
835.7100	Ground Water Monitoring	41561103 41803901 42224701 42534501 42704901		OLD OLD OLD OLD OLD	
850.6100	Environmental Chemistry Methods			GAP	
860.1300	Nature of the Residue: Plants	00024737 00056424-25 00113828		OLD OLD OLD	

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Ingredient: Asulam (CAS No. 3337-71-1; PC Code 106901)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1300	Nature of the Residue: Livestock	00044580 00056422 00098551 41561101-02		OLD OLD OLD OLD	
860.1850	Confined Rotational Crops	43902501		OLD	
860.1340	Residue Analytical Methods	00004821 00052047 00056432 00056435-36 00056438-40 00084790 00084804 00098547-48 00098552-53 00113827 00113831 41239701 42292401		OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD	
860.1360	Multiresidue Method				Not required
860.1380	Storage Stability	42806201 43234701		OLD OLD	

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Ingredient: Asulam (CAS No. 3337-71-1; PC Code 106901)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: sugarcane	00004821 00004823-24 00056441-42 00113830-31 00113836-37 00136346 42088801 42201501 43800501		OLD OLD OLD OLD OLD OLD OLD OLD OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: sugarcane	00056441 00113831 00113836 00136346 42201501		OLD OLD OLD OLD OLD	
860.1480	Magnitude of the Residue in Meat, Milk, Poultry, and Eggs	00052047 00084805 00098553 00098554 00113833		OLD OLD OLD OLD OLD	
860.1400	Nature and Magnitude of the Residue in Potable Water				Not required
860.1400	Magnitude of the Residue in Fish				Not required

Signature 	Name and Title Ann M. Tillman Senior Regulatory Consultant	Date July 7, 2021
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

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DATA MATRIX

Date July 7, 2021

EPA Reg No./File Symbol 92044-I

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Applicant's/Registrant's Name & Address CAC Chemical Americas, LLC
7 Castle View Court
Rye Brook, NY 10573

Product
CAC Asulam Technical

Ingredient: Asulam (CAS No. 3337-71-1; PC Code 106901)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1400	Magnitude of the Residue in Plants Resulting from the Use of Irrigation Water				Not required
860.1460	Magnitude of the Residue in Food Handling Establishments				Not required
860.1900	Field Rotational Crops	42980801		OLD	

Signature

Name and Title

Ann M. Tillman | Senior Regulatory Consultant

Date

July 7, 2021

Endnotes for Data Matrix for CAC Asulam Technical

- ¹ **830.1650** – These data are not required for the registration of a manufacturing use product. See 830.1620 for production process information.
- ² **830.6315** – CAC Chemical Americas, LLC requests a waiver from the requirement of this data requirement since CAC Asulam Technical is a solid product. There are no components in this product that are considered flammable. Please refer to the Confidential Statement of Formula for CAC Asulam Technical.
- ³ **830.6316** – CAC Chemical Americas, LLC requests a waiver from this data requirement because Asulam does not have the chemical bonds or functional groups associated with explosive chemicals.
- ⁴ **830.6319** – This data requirement is required when the product is an emulsifiable liquid and is diluted with petroleum solvents. CAC Asulam Technical is not an emulsifiable liquid to be diluted with petroleum solvents and therefore this data requirement is not applicable.
- ⁵ **830.7100** - This data requirement is required when the product is a liquid. CAC Asulam Technical is not a liquid and therefore this data requirement is not applicable.
- ⁶ **830.7220** – This data requirement is not applicable to CAC Asulam Technical because it is a solid. Refer to MRID 50760504 for melting point data of Asulam technical grade.
- ⁷ **830.7520** – CAC Chemical Americas, LLC is seeking a waiver for this data requirement for CAC Asulam Technical because the product is not a fibrous material and is not water-insoluble.